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SOURCE Radio, No 9, 1951.

THE ECONOMICAL TWIN TRIODE 1N3S

The economical twin triode, Type 1N3S (old designation 1N1), developed for use in Type KRU-2 kolkhoz radio centers, is now being manufactured. It may also be used in the output stages of economical amplifiers supplied from storage batteries or dry cells.

The housing of the 1N3S is made of glass, and the base is octal. The overall dimensions of the tube are 78 mm by 34 mm.

Characteristics of the 1N3S Tube

Filament voltage	1.2 v $\pm 10\%$
Filament current	120 ma $\pm 10\%$
Plate voltage (max)	150 v
Transconductance of each triode	≈ 1.8 ma/v
Amplification factor (rated value)	≈ 11
Plate resistance	$\approx 9,000 \Omega$
Maximum plate power dissipation of one triode	1.0 w

Typical Class AB Operation of Tube to Obtain Output of One Watt
With Harmonic Content of 10 Percent

Filament voltage	1.2 v
Filament current	120 ma
Plate voltage	120 v
Grid bias	- 8.5 to - 9 v
Grid voltage amplitude	12 v
Quiescent plate current	≈ 5 ma
Plate current at maximum power output	≈ 23 ma

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